

SAF-RC-001

Industrial Hygiene Sampling

FINAL DATA

NO DISTRIBUTION REQUIRED

COMMENTS:

SDG

06I-0180-02

SAF-RC-001

Rad only

X

Chem only

Rad & Chem

X Complete

Partial

300 Area 303M Bldg

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Cover Page

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Report Identification Number: 06I-0180-02
Subcontract Number: 0000X-BO-G0058-B-Mod#4
Name of Industrial Hygienist: Denise A. Pitts / Henry W. Ruby
Laboratory Identification Number: DCHM
SAF#: RC-001 / R303M0 J451
Payroll#: 73513



Sample Information

Sample Date	Customer Sample Number	Laboratory Sample Number	Method	Analytical Batch Identification	Sample Matrix
17 Jan 2006	J10RH7	06I01512	NMAM 7300M	G060K00K	G WIPE
17 Jan 2006	J10RH8	06I01513	NMAM 7300M	G060K00K	G WIPE
17 Jan 2006	J10RH9	06I01514	NMAM 7300M	G060K00K	G WIPE

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Name: Lisa M. Reid
Title: Chemist
Date: January 19, 2006



Case Narrative Page

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General Set Information: There are 4 samples in set 06I-0164-01, 3 samples in set 06I-0180-02 and 3 samples in set 06I-0181-02. The samples were analyzed for cadmium, lead and beryllium on Ghost Wipe. No problems were encountered with the receipt of these samples and no contact with the CTR was required.

Method Summary: Samples were transferred to 50 ml centrifuge tubes and digested in the presence of 5 mL of nitric acid and 5 mL of ASTM Type II water. Samples were digested in a hot block set at 110°C for 60 minutes. Samples were then diluted to a 25 mL volume with ASTM Type II Water. Samples were shaken and delivered for ICP analysis.

Sample Preparation: All samples were prepared in accordance with DCL SOP "IH-AN-021" and NIOSH method NMAM 7300 modified for hot block digestion.

Holding Times: The holding times were met for both sample preparation and analysis.

Instrument Calibration: Instrument calibration was performed in accordance with NIOSH method NMAM 7300.

Initial and Continuing Calibration Verification Analysis: Beryllium, cadmium and lead recoveries in all Initial Calibration Verification (ICV) and Continuing Calibration Verification (CCV) samples are within the quality control limits of +/- 10%.

Initial and Continuing Calibration Blank Analysis: No beryllium results were found in the Initial Calibration Blank (ICB) or Continuing Calibration Blanks (CCB) at levels above the Contract Required Detection Limits (CRDL) of 0.01 ug/sample. No cadmium results were found in the Initial Calibration Blank (ICB) or Continuing Calibration Blanks (CCB) at levels above the Contract Required Detection Limits (CRDL) of 0.07 ug/sample. No lead results were found in the Initial Calibration Blank (ICB) or Continuing Calibration Blanks (CCB) at levels above the Contract Required Detection Limits (CRDL) of 2. ug/sample.

Method Blank Analysis: No beryllium, cadmium or lead was found in any of the media blank samples above the Contract Required Detection Limit (CRDL).

Dilution(s): None.

Laboratory Control Sample and Duplicate Analysis: Two Laboratory Control Samples (LCSs) and two Laboratory Control Sample Duplicates (LCSDs) were prepared and analyzed with the sample batch. The LCS results were within the control limits of +/- 20%. The Relative Percent Difference (RPD) between the LCS and the LCSD were within the control limit of 20%.

Replicate Analysis: One sample in this batch was replicated. The RPD between the samples and the replicates was within the control limit of 20%. If the result of the sample or replicate is below the CRDL, replicate analysis is negligible.

Flagging Codes: None

Nonconformance/Corrective Action Report (NC/CAR): N/A

Sample Calculation: The final results are calculated by the following equation:
Final result for aqueous samples ($\mu\text{g}/\text{sample}$) = (A) x (B) x (C)

Where:

A = Analyte concentration from instrument determination ($\mu\text{g}/\text{L}$)

B = Concentration factor from sample preparation
= Final Volume of Digestate (L)

Sample

C = Dilution performed at time of analysis

Example Calculation: $(1 \mu\text{g}/\text{L}) \times (0.025 \text{ L}/\text{sample}) \times (1) = 0.025 \mu\text{g}/\text{sample}$

Miscellaneous Comments: None



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Laboratory Identification Number: DCHM

SAF#: RC-001 / R303M0 J451

Payroll#: 73513

Customer Sample Number	Laboratory Sample Number	Date Analyzed	Beryllium µg/sample		Cadmium µg/sample		Lead µg/sample	
J10RH7	06I01512	18 Jan 2006	<0.01	U	<0.07	U	<2.	U
J10RH8	06I01513	18 Jan 2006	<0.01	U	<0.07	U	<2.	U
J10RH9	06I01514	18 Jan 2006	<0.01	U	<0.07	U	<2.	U
Limit of Detection (LOD)			0.01		0.07		2.	
Required Detection Limit (RDL)								

U - Parameter not detected above LOD.

J - Parameter between LOD and RDL.



QC Summary Page

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Name of Industrial Hygienist: Denise A. Pitts / Henry W. Ruby
Laboratory Identification Number: DCHM
SAF: RC-001 / R303M0 J451
Payroll#: 73513

Batch ID: G060K00K

QC Sample ID	QC Type	Analyte	Units	Result	Parent Result	Target	Percent Rec.	Relative Percent Diff.
BL-240171-1	MB	Beryllium	µg/sample	ND	NA	NA	NA	NA
BL-240171-1	MB	Cadmium	µg/sample	ND	NA	NA	NA	NA
BL-240171-1	MB	Lead	µg/sample	ND	NA	NA	NA	NA
QC-240171-1	LCS	Beryllium	µg/sample	10.8	NA	10.0	108.	NA
QC-240171-1	LCS	Cadmium	µg/sample	32.4	NA	30.0	108.	NA
QC-240171-1	LCS	Lead	µg/sample	102.	NA	100.	102.	NA
QD-240171-1	LCSD	Beryllium	µg/sample	10.8	10.8	10.0	108.	0.483
QD-240171-1	LCSD	Cadmium	µg/sample	32.2	32.4	30.0	107.	0.718
QD-240171-1	LCSD	Lead	µg/sample	102.	102.	100.	102.	0.496

MB - Method Blank

LCS - Laboratory Control Sample

LCSD - Laboratory Control Sample Duplicate

MS - Matrix Spike

MSD - Matrix Spike Duplicate

LD - Laboratory Duplicate

NA - Not Applicable

ND - Parameter not detected above LOD

$LCS, LCSD \text{ Percent Rec.} = (\text{Result} / \text{Target}) * 100.0$

$MS, MSD \text{ Percent Rec.} = ((\text{Result} - \text{Parent}) / \text{Target}) * 100.0$

$LCS, LCSD \text{ Relative Percent Diff.} = ((|LCS - LCSD|) / ((LCS + LCSD)/2.0)) * 100.$

$MS, MSD \text{ Relative Percent Diff.} = ((|MS - MSD|) / ((MS + MSD)/2.0)) * 100.$

$LD \text{ Relative Percent Diff.} = ((|Parent - LD|) / ((Parent + LD)/2.0)) * 100$

**Washington
Closure
Hondai**

[illegible]

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Web Page: www.datachem.com
E-mail: lab@datachem.com

Enter on line below the first Sample Number from Page One:

J10YM9

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			
SIGN / PRINT NAMES / USE MILITARY TIME			
Received By/Sign:	DATE / TIME	Received By/Sign:	DATE / TIME
<i>[Signature]</i> Vetta D. Jones	1-17-06 1420	3746 Building, Rm 16, locked cabinet	1-17-06 1420
Received By/Sign:	DATE / TIME	Received By/Sign:	DATE / TIME
3746 building Rm 16 locked cabinet		RZ Steffler R. Z. Steffl	1-17-06 1445
Received By/Sign:	DATE / TIME	Received By/Sign:	DATE / TIME
Gailie Maman	01/17/06 1445	Fed Ex	
Received By/Sign:	DATE / TIME	Received By/Sign:	DATE / TIME
RZ Steffler R. Z. Steffl	1-17-06 1530	<i>[Signature]</i> Edward	1/17/06 945
Received By/Sign:	DATE / TIME	Received By/Sign:	DATE / TIME
FedEx			
Received By/Sign:	DATE / TIME	Received By/Sign:	DATE / TIME
<i>[Signature]</i> RZ	1/17/06 745		
Received By/Sign:	DATE / TIME	Received By/Sign:	DATE / TIME
Received By/Sign:	DATE / TIME	Received By/Sign:	DATE / TIME
Received By/Sign:	DATE / TIME	Received By/Sign:	DATE / TIME
LABORATORY SECTION	Received By	Title	DATE / TIME
	<i>[Signature]</i>		1/17/06 945

REVIEWED BY: _____ DATE: _____
PRINT/SIGN NAME



CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

Collector: Vetta D Jones	Company Contact Denise A. Pitts and Henry W. Ruby	Telephone No. 531-1229	Project Coordinator Joan H. Kessner	Data Turnaround 24 hour								
Payroll #: 73513	Sampling Location 300 Area	SPECIAL INSTRUCTIONS All relevant COAs must be provided: R303MD J451		SAF No. RC-001								
Type of Sample: air and wipe	303M Building	ANALYSIS METHOD (SPECIFIC): NIOSH 7300		Method of Shipment Fed Ex								
Shipped To: Data Chem Salt Lake City	Wipe Sample Media: Ghost <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Other _____			Bill of Lading/Air Bill No. 8541 9337 3300	COPY							
POSSIBLE SAMPLE HAZARD/REMARKS Be, Pb, Cd	MATRIX A - AIR W1 - WIPE X - OTHER	Preservation (i.e., cooling required, etc.)	No	No	No	No	No	No	No	No	No	na
Special Handling and/or Storage NA			No	No	No	No	No	No	No	No	No	na
SAMPLE ANALYSIS					Asbestos Airborne	Lead Airborne	Beryllium Airborne	Beryllium Wipe	Mold	Lead Wipe	Cd Wipe	Cd Airborne
SAMPLE NO.	MATRIX	SAMPLE DATE	VOLUME (L) or Area cm ²	Comments								
J10YM9	A	1-17-06	304L	personal	na	x	x					x na
J10YND	A	1-17-06	NA	Blank	na	x	x					x na
J10YNI	A	1-17-06	NA	Blank	na	x	x		1-17-06			x na
J10YW2	A	1-17-06	94L	personal	na	x	x					x na
J10RH7	W1	1-17-06	NA	Blank				x	na	x	x	4x
J10RH8	W1	1-17-06	NA	Blank	1-17-06			x	na	x	x	1-17-06
J10RH9	W1	1-17-06	100cm ²	NA				x	na	x	x	
				4x								
				1-17-06								
FIELD SAMPLE COPY												

